

ABSTRACT

A gas vane pump wherein a lubricant is intermittently introduced into a housing 10 during rotation of a rotor 40, through a lubricant supply passage 100 formed through the housing and the rotor, and the relative position between the rotor having a diametric hole 112 and the housing having a communication groove 130 is determined such that when the rotor 40 is placed at an angular position which is in the middle of a predetermined angular range relative to the housing 10 and in which the hole 112 is in communication with the groove 130, a point of contact between a vane 70 movably held by the rotor and the inner circumferential surface of the housing 10 is located at the lowest position of the inner circumferential surface, so that when the rotor 40 is stopped at an angular position within the predetermined angular range, the vane 70 divides the remaining lubricant mass into two portions, which are discharged at respective two different times one after the other, making it possible to reduce the load acting on the vane upon restarting of the vane pump.